

ABSTRACT

An electromagnetic damper control device including a first member containing a magnet, and a second member containing a solenoid combined to permit relative rotation. The relative rotation of the first and second members induces an electromagnetic force in a solenoid that serves as a damping force to a motion. The device further comprises a current limiter device operated by a voltage generated in the solenoid due to the relative rotation of the first member and second member. The current limiter devices regulates the electrical current flowing in the solenoid to a specific value based on the voltage generated in the solenoid so that by regulating the damping force of the electromagnetic damper a desired damping force can be applied to the electromagnetic damper without requiring external electrical power.